TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-12-01** **Date: 17-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-2017
Sample ID No	:	2017-05-12-01/02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	197	197	3.94	96.06	90-100
3	10 mm	2309	2506	50.12	49.88	25-55
4	4.75 mm	2300	4806	96.12	3.88	0-10
5	Pan	194	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-12-01** **Date: 17-05-2017**

Sample ID No : 2017-05-12-01/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.21	–
7	Aggregate crushing Value(%)	22.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಉಪ-ವಿಭಾಗ
ಮಾಗಡಿರಸ್ತೆ, ಬಿಬಿಎಂಪಿ
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R.KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-12-01** **Date: 17-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	12-05-2017
Sample ID No	:	2017-05-12-01/02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	12-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	400	400	2.7	97.3	90-100
3	20 mm	4380	4780	31.9	68.1	30-70
4	10 mm	5183	9963	66.4	33.6	10-35
5	4.75 mm	4390	14353	95.7	4.3	0-5
6	Pan	647	15000	100.0	0	--

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-12-01** **Date: 17-05-2017**

Sample ID No : 2017-05-12-01/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.5	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.2	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.51	–
6	Water Absorption(%)	0.26	–

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-12-01**	**Date: 17-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.	
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer's Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-05-2017	
Sample ID No	:	2017-05-12-01/04	
Sample Type	:	Indus Fe 500	
Reference to BIS codes	:	IS 1786-2008	
Date of test:	:	12-05-2017	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	8mm	0.392	527	613	18.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	8mm	Satisfactory	Satisfactory

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Prepared By:
Harshitha

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ಬಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
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Quality Manager

End of Report

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-12-01** **Date: 17-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer's Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-05-2017
Sample ID No	:	2017-05-12-01/05
Sample Type	:	Indus Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	12-05-2017

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Indus Fe 500	Fe500	10mm	0.612	539	648	19.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Indus Fe 500	Fe500	10mm	Satisfactory	Satisfactory

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Quality Manager

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-05-12-01**	**Date: 18-05-2017**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.	
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer's Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-05-2017	
Sample ID No	:	2017-05-12-01/06	
Sample Type /Size	:	Precast Cover Slab	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete	
Date of test	:	12/05/2017	

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.45	1.116	4477	90.5	20.2	18.8	23.5
2	Cover Slab-2	75.49	100.50	1.122	4475	92.1	20.6	19.1	23.9
3	Cover Slab-3	75.50	100.48	1.118	4476	91.0	20.3	18.9	23.6

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